APPENDIX D

AGENCY COORDINATION

cc: CRM 5-7-04 3B

Texas Department of Transportation

DEWITT C. GREER STATE HIGHWAY BLDG. • 125 E. 11TH STREET • AUSTIN, TEXAS 78701-2483 • (512) 463-8585

May 3, 2004

RE: Section 106 Consultation: Transmittal of TxDOT Recommendations for No Further Work and No Historic Properties Affected: IH-35 from FM 2837 South to FM 2063 in Hewitt in McLennan County. CSJ: 0015-01-165/179/186

James E. Bruseth, Ph.D.
Department of Archeology
Texas Historical Commission
P.O. Box 12276
Austin, Texas 78711

Dear Dr. Bruseth:

In accord with the Programmatic Agreement (PA) among TxDOT, Federal Highways Administration, the Advisory Council on Historic Preservation, and the Texas Historical Commission (THC), and the Memorandum of Understanding (MOU) between TxDOT and THC we are continuing Section 106 and Antiquities Code consultation for the proposed undertaking.

This project entails widening approximately 6 miles of IH-35 between FM 2837 South and FM 2063 near Hewitt in McLennan County. The existing roadway consists of a divided roadway with two 12 foot main lanes and shoulders ranging from 6 to 10 feet in each direction. In addition, frontage roads that are comprised of dual 12 foot wide lanes with 2 foot shoulders in each direction are separated from the main lanes by 21 to 57 foot wide grassy medians. The existing right of way is 274 feet in width. The proposed roadway would be divided by a concrete median barrier with three 12 foot wide lanes in either direction with 12 foot inside and 10 foot outside shoulders. The proposed one way frontage roads would be comprised of two 12 foot wide travel lanes with 4 foot inside and outside shoulders and curb and gutters. These frontage roads would be separated from the main lanes by 45 to 61 foot wide grassy medians. Cross drainage structures most notably located at Chambers, Castleman, and Bull Hide Creeks would be widened or replaced to match the existing roadway. The proposed right of way would be 346 to 380 feet in width. Approximately 87.5 acres of new right of way would be required and would be taken from both sides. The horizontal alignment would be shifted east or west approximately 14 feet. No easements or detours are required.

According to the Lorena quad (3197-143) of the Texas Historic Sites Atlas, there have been no archeological sites recorded in or near the proposed project area. The atlas also revealed that two archeological investigations have been previously conducted in the project area. They were both conducted by the TWDB in 1998 and 1999. No TAC permit numbers were listed on the atlas. In addition, as part of this project, TxDOT contracted Prewitt and Associates Inc. (PAI) to survey the Chambers, Castleman, and Bull Hide Creeks crossings. On December 18, 2002, the THC concurred with TxDOT recommendations for no further work at these three locales (see attached).

According to the 1979 Waco Sheet of the Geologic Atlas of Texas, Upper Cretaceous aged Austin Chalk that has historically demonstrated minimal potential for the presence of buried intact archeological deposits constitutes the underlying geology of the proposed project area. Holocene aged alluvium that has exhibited

potential for the presence of buried intact archeological deposits was not noted on the atlas in or near the proposed project area.

No archeological sites have been previously recorded in or adjacent to the proposed project area. The six miles of the proposed IH-35 widening project occurs in an upland setting demonstrating low potential for the presence of buried intact archeological deposits. In addition, the existing right of way has been extensively disturbed due to the previous construction and maintenance of the IH-35 roadway. The 87.5 acres of proposed right of way would be generated from adjoining areas that have been disturbed from either routine contour plowing, residential, or commercial development. Finally, the PAI work conducted at the Chambers, Castleman, and Bull Hide Creeks crossings that in TxDOT's opinion exhibit the project's highest potential for buried intact archeological deposits, did not identify any archeological remains.

Based upon the information discussed above, TxDOT seeks THC concurrence that the inventory for the proposed project is complete, for a finding of "no historic properties affected", no State Archeological Landmarks present, no further work or THC consultation required, and the project may advance to construction. Please signify your concurrence by signing on the line provided below. In the event that potentially significant archeological remains are discovered during construction in the project area, construction in the immediate area shall cease, and TxDOT archeological personnel will contact your office to initiate accidental discovery procedures in accordance of the terms of the PA. If you have any questions or comments regarding this project, please contact me at (512) 416-2640. Thank you for your consideration in this matter.

Sincerely,

Jon Budd, TxDOT Staff Archeologist

Concurrence by: _____ Date: 5-4-04

For F. Lawerence Oaks, State Historic Preservation Officer and Executive Director

Attachments

cc w/attachments: Waco IH 35 Office, ATTN: A. Polanski, ENV-MS, SBW/JG, JHB, Reading File

U.S. Department of Agriculture

FARMLAND CONVERSION IMPACT RATING

PART I *(To be completed by Federal Agency)*	Date Of Land Evaluation Request 5/30/07
Name Of Project IH 35 from FM 2837 to FM 2063	Federal Agency Involved FHWA
Proposed Land Use Transportation	County And State McLennan County, Texas
PART II *(To be completed by NRCS)*	Date Request Received By NRCS

Does the site contain prime, unique, statewide or local important farmland? *(If no, the FPPA does not apply -- do not complete additional parts of this form).* Yes ☐ No ☐		Acres Irrigated	Average Farm Size
Major Crop(s)	Farmable Land In Govt. Jurisdiction Acres: %	Amount Of Farmland As Defined in FPPA Acres: %	
Name Of Land Evaluation System Used	Name Of Local Site Assessment System	Date Land Evaluation Returned By NRCS	

PART III *(To be completed by Federal Agency)*	Alternative Site Rating Site A	Site B	Site C	Site D
A. Total Acres To Be Converted Directly	129.8			
B. Total Acres To Be Converted Indirectly	0.0			
C. Total Acres In Site	129.8	0.0	0.0	0.0
PART IV *(To be completed by NRCS)* Land Evaluation Information				
A. Total Acres Prime And Unique Farmland				
B. Total Acres Statewide And Local Important Farmland				
C. Percentage Of Farmland In County Or Local Govt. Unit To Be Converted				
D. Percentage Of Farmland In Govt. Jurisdiction With Same Or Higher Relative Value				
PART V *(To be completed by NRCS)* Land Evaluation Criterion Relative Value Of Farmland To Be Converted *(Scale of 0 to 100 Points)*	0	0	0	0

PART VI *(To be completed by Federal Agency)* Site Assessment Criteria *(These criteria are explained in 7 CFR 658.5(b)*	Maximum Points				
1. Area In Nonurban Use	15	8			
2. Perimeter In Nonurban Use	10	5			
3. Percent Of Site Being Farmed	20	2			
4. Protection Provided By State And Local Government	20	0			
5. Distance From Urban Builtup Area	0	0			
6. Distance To Urban Support Services	0	0			
7. Size Of Present Farm Unit Compared To Average	10	10			
8. Creation Of Nonfarmable Farmland	25	0			
9. Availability Of Farm Support Services	5	3			
10. On-Farm Investments	20	5			
11. Effects Of Conversion On Farm Support Services	25	0			
12. Compatibility With Existing Agricultural Use	10	0			
TOTAL SITE ASSESSMENT POINTS	160	33	0	0	0
PART VII *(To be completed by Federal Agency)*					
Relative Value Of Farmland *(From Part V)*	100	0	0	0	0
Total Site Assessment *(From Part VI above or a local site assessment)*	160	33	0	0	0
TOTAL POINTS *(Total of above 2 lines)*	260	33	0	0	0

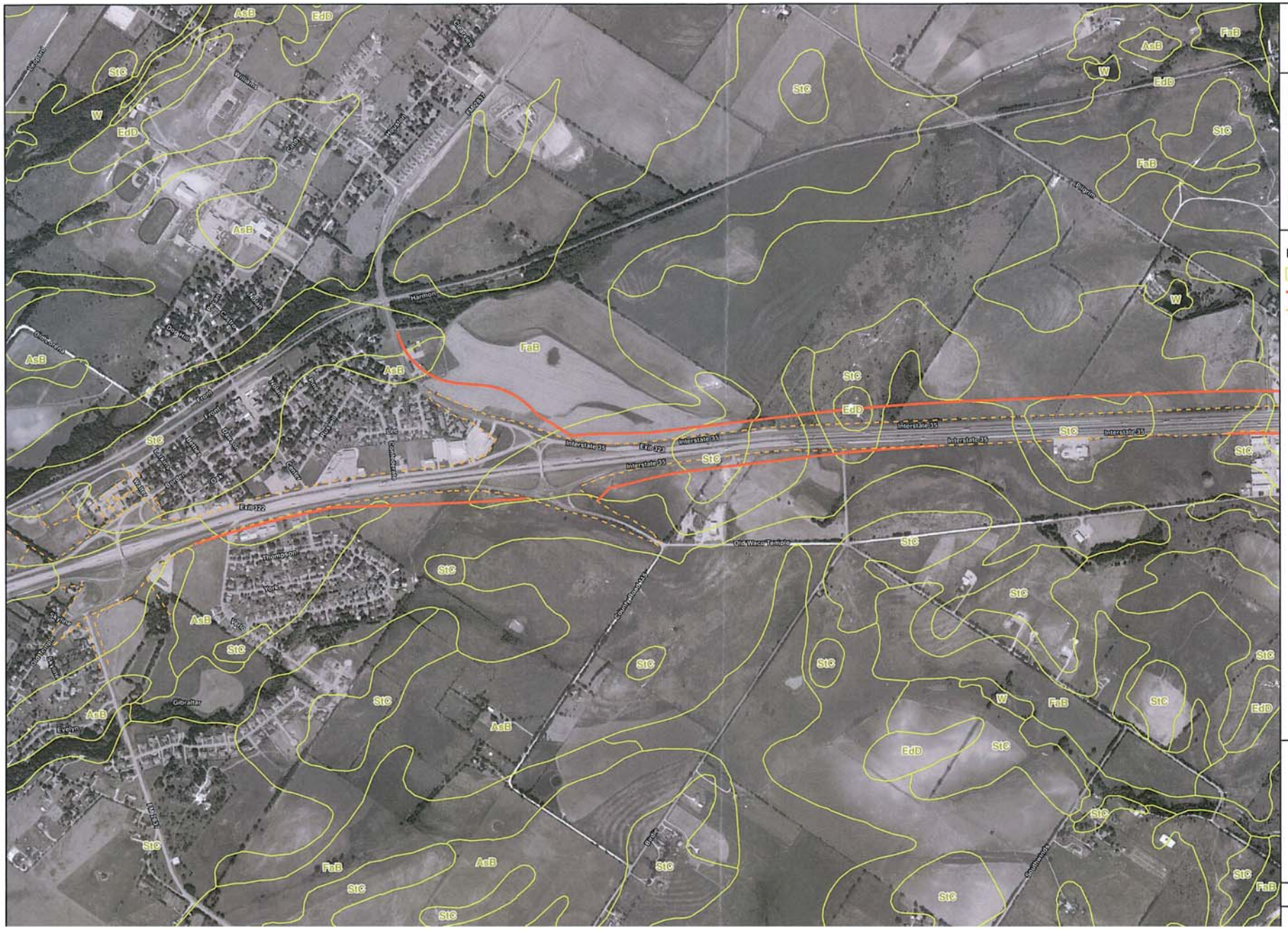
Site Selected:	Date Of Selection	Was A Local Site Assessment Used? Yes ☐ No ☐

Reason For Selection:

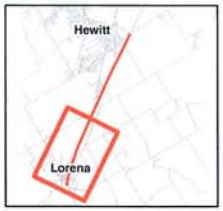
(See Instructions on reverse side)

Form AD-1006 (10-83)

This form was electronically produced by National Production Services Staff



IH 35 Segment 3B
Project Area Soils



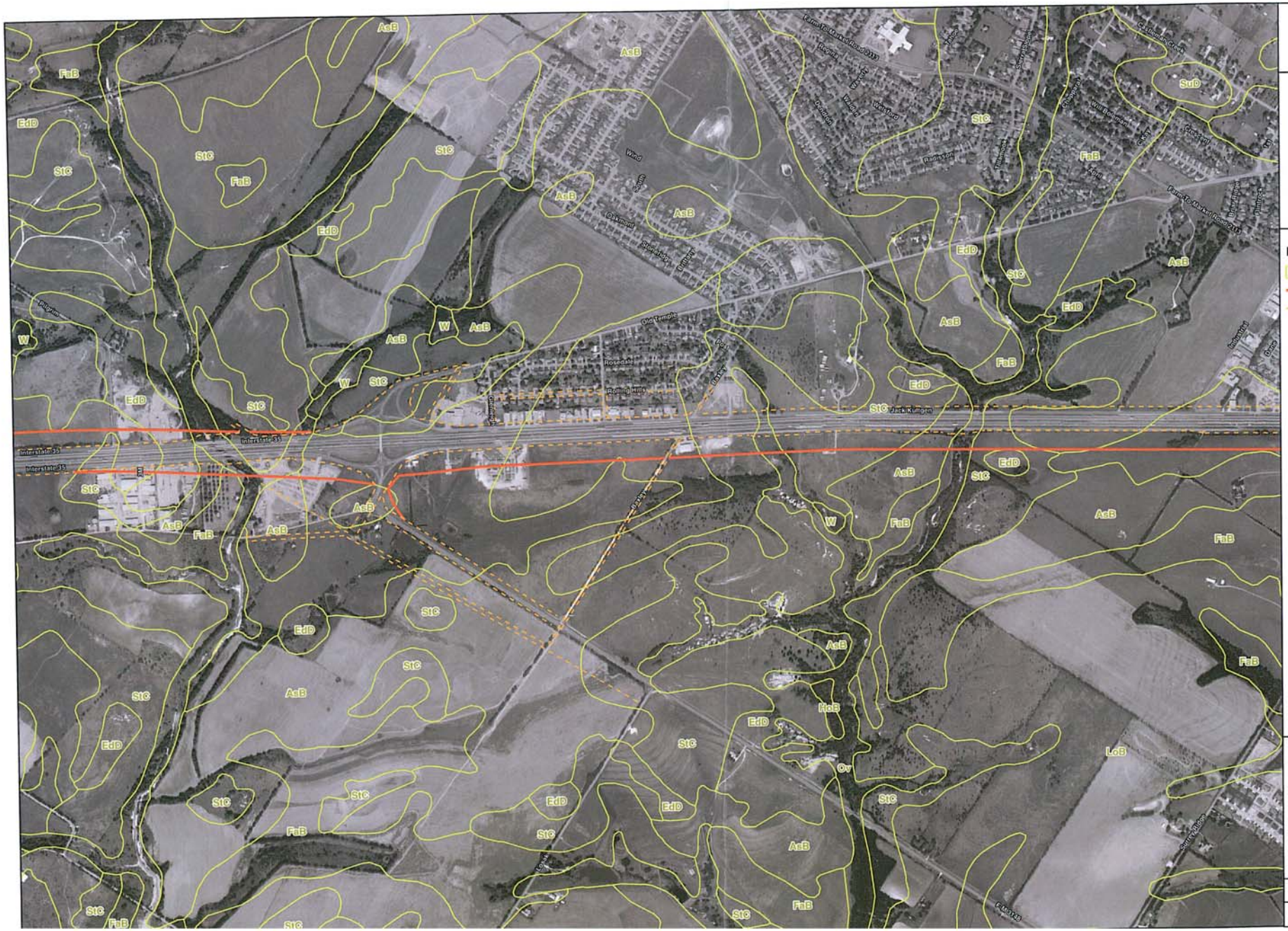
Legend

- Soils
- Proposed Right-of-Way
- Existing Right of Way

0 500 1,000
Feet

FIGURE 2

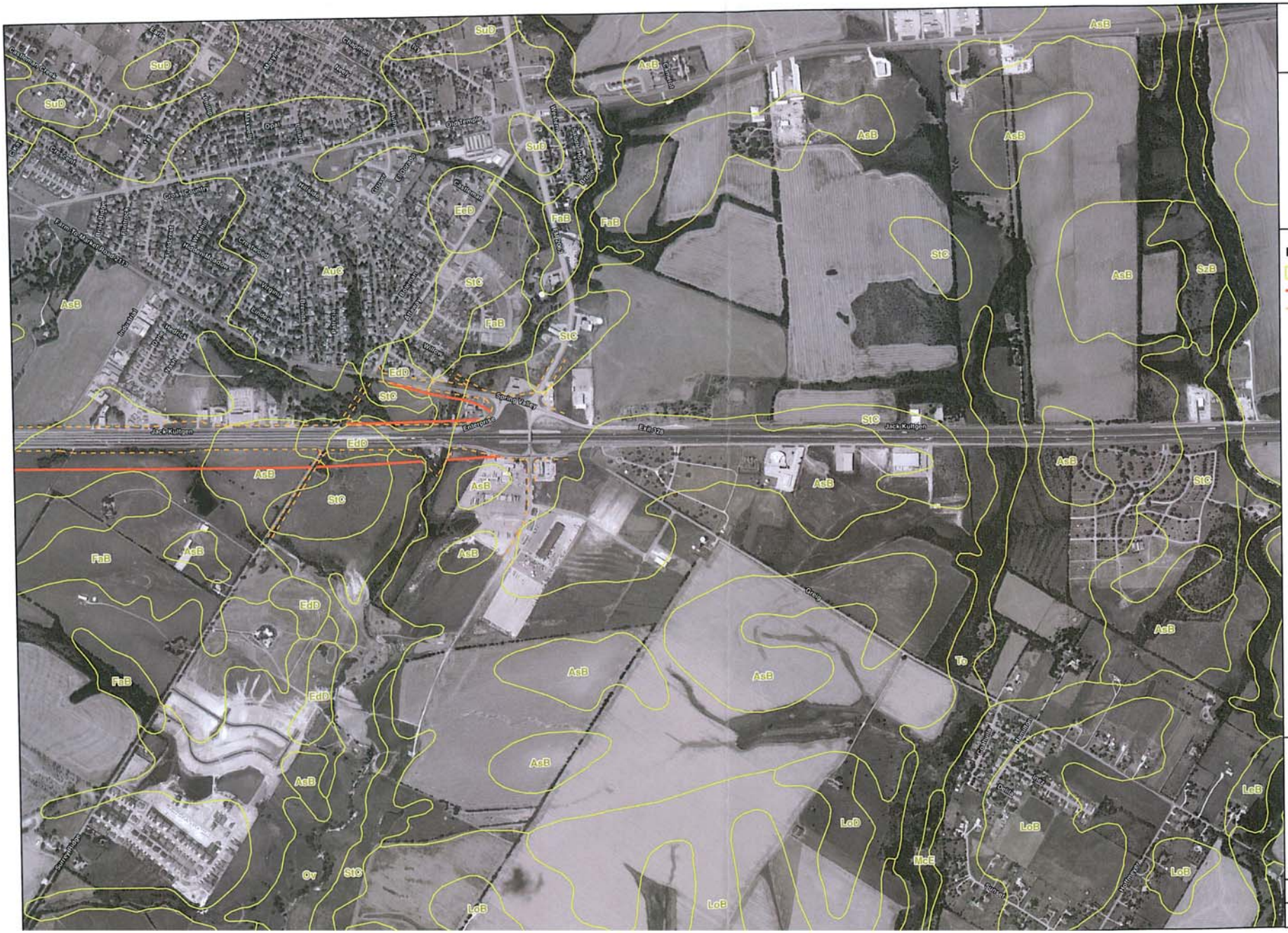
Plate 1



IH 35 Segment 3B
Project Area Soils

FIGURE 2

Plate 2



IH 35 Segment 3B
Project Area Soils

Legend

- Soils
- Proposed Right-of-Way
- Existing Right of Way

0 500 1,000
Feet

FIGURE 2

Plate 3

CC: CRM 8-4-04

Texas Department of Transportation

DEWITT C. GREER STATE HIGHWAY BLDG. • 125 E. 11TH STREET • AUSTIN, TEXAS 78701-2483 • (512) 463-8585

July 13, 2004

SECTION 106: NOTIFICATION OF A FINDING OF **NO EFFECT**

McLennan County, Waco District
CSJ# 0015-01-0165

Interstate Highway 35: From South FM 2837 to FM 2063 n Hewitt

Mr. Bob Brinkman
History Programs
Texas Historical Commission
Austin, Texas 78711

Dear Mr. Brinkman

In accordance with 36 CFR 800 and the Statewide Programmatic Agreement for Cultural Resources, we are initiating Section 106 consultation for the above reference project, which will be carried out with Federal assistance. This letter serves as a notification of a finding of **no effect** to National Register eligible properties located within the project's area of potential effects (APE).

Introduction:
The Texas Department of Transportation (TxDOT), Waco District, is proposing to construct improvements to Interstate Highway (IH) 35 from South FM 2837 in Lorena to FM 2063 in Hewitt in McLennan County, Texas. The total length of the project is approximately 6-miles. Due to the need require additional right-of-way this undertaking requires individual project consultation with the SHPO. Project location maps, plan view and typical cross sections are included (**Figures 1-4**).

Existing Facility
From the project's southern terminus at South FM 2837to North 2837, through the city of Lorena, the existing facility consists of two 12-foot main lanes divided by a continuous concrete barrier (CTB), with ten foot outside shoulders. The northbound frontage road between South FM 2837 and North FM 2837 is separated from the main lanes by a 57-foot wide (typical) median. The northbound frontage road consists of two 12-foot lanes. The southbound frontage road in this area is separate from the main lanes by a 47-foot (typical) median. The southbound frontage road also consists of two 12-foot lanes.

From North FM 2837 to the project's northern terminus at FM 2063, the existing facility consists of two 12-foot main lanes with six-foot inside and ten-foot outside shoulders in each direction. The northbound frontage road consists of two 12-foot lanes, with two-foot outside shoulders. The northbound frontage road is separated from the main lanes by 21-foot wide (typical) median. The southbound frontage road is separated from the main lanes by a 30-foor wide (typical) median. The southbound frontage road consists of two 12-foot lanes. The existing overall right-of-way width is typically 274 feet throughout the project area.

Description of the Proposed Action
The proposed facility would consist of three 12-foot main lanes in each direction, with 12-foot inside shoulders separated by a concrete median barrier, and ten-foot outside shoulders. The purchase of right-of-way would be required to accommodate the proposed construction and improvements to entrance and exit ramps to appropriate design standards. Grassy medians varying from 45 to 61-feet, would separate the main lanes from the frontage roads. Northbound and southbound frontage roads would be converted to one way and would each consist of two 12-foot travel lanes, one four-foot inside and four-foot outside shoulder with curb and gutter on the outside shoulder. The overall right-of-way width would typically be 346 to 380 feet. From South FM 2837 to North 2837 through Lorena the typical right-of-way width would be 292-feet. See **Figures 1.1-2** and **1.2-3 Proposed Typical Sections.**

The alignment of IH-35 at to South FM 2837 cross structure would be shifted to the south to improve the alignment at this intersection. The alignment at the North FM 2837 and FM 3148 intersection cross-structures would be shifted to the north to improve the alignment at these intersections.

In conjunction with the conversion of two-way frontage roads to one-way frontage roads, ramp configurations would be changed from the existing diamond configuration to an "X" configuration (see **Figure 1.2-4**). The difference between a diamonds ramp configuration and "X" configuration is that the diamond ramp is traditionally used where traffic volumes are lighter. The "X" configuration provides relief at intersection where greater traffic volumes are exiting the main lanes. Providing a greater distance between the exit ramp and the intersection prevents traffic from stacking up on the ramps and main lanes.

All bridges at intersection (cross-structures bridges) would be replaced to raise the elevation to meet current clearance requirements for traffic traveling underneath the bridge (16.6 ft). Where possible, culverts would be extended. All bridges over stream crossing and culverts would likely be replaced. Frontage road culverts with capacities less than the adjacent main lane culverts would be expanded to accommodate drainage from the main lane structures.

Efforts to Identify and Evaluate Historic Properties
A review of the National Register of Historic Places (NRHP), the list of State Archeological Landmarks (SAL), and the list of Recorded Texas Historic Landmarks (RTHL) indicated that no historically significant properties have been previously documented within the project area of potential effects (APE). The APE for the proposed project is 150-feet from the right-of-way or proposed right-of-way; which ever is greater. A site visit conducted by TxDOT personnel revealed eighteen (18) structures which are older than 50 years of age (built prior to 1960). Nine (9) of the resources are properties dating from the post WWII period **(Site Nos: 1-8, 11)**. They are comprised of houses that are typical of the period, namely California-Ranch style houses, characterized by single-story, low hipped roofed, rectangular plan structures with asymmetrical facades, and Minimal Traditional Revival houses with "L"-shaped plans and gabled roofs. Seven of the remaining structures **(Site Nos: 12-18)** are associated with the Lorena School, a property that has experienced many changes in the last 50 years. The principle building is believed to have been built in 1930 and exhibits Mission-style architectural features around the entryways and at the end-walls of the wings. The widows have been covered up with metal sheeting.

There are a number of substantial additions to the building including a gym, cafeteria, and classrooms. The additions are not sympathetic to the architectural massing and style of the original building and detract from the overall historic design, setting, feeling and association.

In accordance with Section 106 (CFR 800.4) I have evaluated these buildings **(Sites 1-8, 11, 12-18)** for inclusion in the National Register of Historic Places. None of these structures are known to be associated with a significant historical event, or associated with a person of transcendent importance, nor do these buildings embody the distinctive characteristics of a type, period, or method of construction, or that represents the work of a master. Therefore these properties are determined to be **not eligible** for listing in the National Register of Historic Places. Photographs of each site are attached along with a table indicating NRHP determinations.

Two of the eighteen sites **(Site Nos. 9, 10)** located on the outskirts of Lorena are of more interest.

Site No. 9: (No Address)
Location: At the North West corner of Borden and Walter Streets

This house is a wood framed, one-and-one-half story "Modified Ell-Plan" with Victorian stylistic features, and simple wood siding. These stylistic features include fish-scale shingles in the dormers and in the gabled end, a wrap-around porch with spindle-work, Roman-Doric porch posts, rails and facia, and colored glass in the upper-panes of the double-sash windows. The siding, front porch-railing spindle work appears to be original as well as the windows and doors. The picket fence along the front and sides of the property is constructed of synthetic materials, presumably PC. The roses and other shrubbery in front on the house are all located within public right-of-way.

The building has retained its distinctive characteristics of a type, period, or method of construction, and embodies many of the stylistic features indicative of the Victorian style. Therefore, the house is **eligible** for listing in the National Register of Historic Places under Criterion C, for Architecture at the local level of significance. For purposes of assessing potential project effects, the NRHP boundary is determined to be the legal property boundary.

Site10: (No Address)
Location: At the North East corner of Borden and Walter Streets

This house is a wood framed, one-and-one-half story "Massed-Plan" with Victorian/Shingle stylistic features, and simple wood siding on the first floor and wood shingle on the second floor. These stylistic features include wood shingles and a large cross gabled roof punctuated by a sleeping porch and windows on the gabled ends. The house is hidden in dense foliage, so the details of the house are hard to discern, however, it appears that the building has retained its distinctive characteristics of a type, period, or method of construction, and embodies many of the stylistic features indicative of the Victorian/Shingle style. Therefore, the house is **eligible** for listing in the National Register of Historic Places under Criterion C, for Architecture at the local level of significance. For purposes of assessing potential project effects, the NRHP boundary is determined to be the legal property boundary.

Finding of Effects
In accordance with CFR 800.5, I have applied the criteria of adverse effect and have determined that the proposed action will have **no effect** to those character-defining features, which qualifies **Site Nos 9 and 10** for inclusion in the National Register. Nor will the proposed action effect features of the property's' location, use, design, setting, materials, workmanship, feeling or association that would contribute to their eligibility. This determination of effect is based on the following.

> All work will be conducted within the existing right-of-way and will not impact any of the planted landscape in front of Site No 9. And once completed the proposed roadway would be no closer to these houses. The roadway at this location will include curb and gutter, but no sidewalk at the corner of Borden and Walter Streets. A drainage inlet will be constructed to carry roadway run off. See attached plan sheet.

In accordance with 36 CFR 800 and the Programmatic Agreement, I hereby request your signed concurrence with these determinations of NRHP eligibility and this finding of **no effect.**

We look forward to further consultation with your staff and hope to maintain a partnership that will foster effective and responsible solutions for improving transportation, safety and mobility in the state of Texas. Thank you for your cooperation in this federal review process. If you have any questions or comments concerning these findings, please call me at 416-2133

Sincerely,

Daniel V. Harris
Historic Preservation Planner,
Environmental Affairs Division

Attachments

CONCUR
No Historic Properties Affected
NAME: _____ DATE: 21 Jul 2004
for, F. Lawerence Oaks, State Historic Preservation Officer

APPENDIX E

THREATENED AND ENDANGERED SPECIES LISTS

U.S. Fish & Wildlife Service

Endangered Species List

Back to Start

List of species by county for Texas:

Counties Selected: McLennan

Select one or more counties from the following list to view a county list:

Anderson
Andrews
Angelina
Aransas
Archer

View County List

McLennan County

Common Name	Scientific Name	Species Group	Listing Status	Species Image	Species Distribution Map	Critical Habitat	More Info
bald eagle	*Haliaeetus leucocephalus*	Birds	AD, T				P
black-capped Vireo	*Vireo atricapilla*	Birds	E				P
golden-cheeked warbler (=wood)	*Dendroica chrysoparia*	Birds	E				P

MCLENNAN COUNTY

BIRDS

		Federal Status	State Status
American Peregrine Falcon	*Falco peregrinus anatum*	DL	E

year-round resident and local breeder in west Texas, nests in tall cliff eyries; also, migrant across state from more northern breeding areas in US and Canada, winters along coast and farther south; occupies wide range of habitats during migration, including urban, concentrations along coast and barrier islands; low-altitude migrant, stopovers at leading landscape edges such as lake shores, coastlines, and barrier islands.

Arctic Peregrine Falcon	*Falco peregrinus tundrius*	DL	T

migrant throughout state from subspecies' far northern breeding range, winters along coast and farther south; occupies wide range of habitats during migration, including urban, concentrations along coast and barrier islands; low-altitude migrant, stopovers at leading landscape edges such as lake shores, coastlines, and barrier islands.

Bald Eagle	*Haliaeetus leucocephalus*	LT-PDL	T

found primarily near rivers and large lakes; nests in tall trees or on cliffs near water; communally roosts, especially in winter; hunts live prey, scavenges, and pirates food from other birds

Golden-cheeked Warbler	*Dendroica chrysoparia*	LE	E

juniper-oak woodlands; dependent on Ashe juniper (also known as cedar) for long fine bark strips, only available from mature trees, used in nest construction; nests are placed in various trees other than Ashe juniper; only a few mature junipers or nearby cedar brakes can provide the necessary nest material; forage for insects in broad-leaved trees and shrubs; nesting late March-early summer

Henslow's Sparrow *Ammodramus henslowii*

wintering individuals (not flocks) found in weedy fields or cut-over areas where lots of bunch grasses occur along with vines and brambles; a key component is bare ground for running/walking

Interior Least Tern	*Sterna antillarum athalassos*	LE	E

subspecies is listed only when inland (more than 50 miles from a coastline); nests along sand and gravel bars within braided streams, rivers; also know to nest on man-made structures (inland beaches, wastewater treatment plants, gravel mines, etc); eats small fish and crustaceans, when breeding forages within a few hundred feet of colony

Peregrine Falcon	*Falco peregrinus*	DL	E T

both subspecies migrate across the state from more northern breeding areas in US and Canada to winter along coast and farther south; subspecies (F. p. anatum) is also a resident breeder in west Texas; the two subspecies' listing statuses differ, thus the species level shows this dual listing status; because the subspecies are not easily distinguishable at a distance, reference is generally made only to the species level; see subspecies for habitat.

Western Burrowing Owl *Athene cunicularia hypugaea*

open grasslands, especially prairie, plains, and savanna, sometimes in open areas such as vacant lots near human habitation or airports; nests and roosts in abandoned burrows

White-faced Ibis	*Plegadis chihi*		T

MCLENNAN COUNTY

BIRDS

Federal Status State Status

prefers freshwater marshes, sloughs, and irrigated rice fields, but will attend brackish and saltwater habitats; nests in marshes, in low trees, on the ground in bulrushes or reeds, or on floating mats

Whooping Crane *Grus americana* LE E

potential migrant via plains throughout most of state to coast; winters in coastal marshes of Aransas, Calhoun, and Refugio counties

Wood Stork *Mycteria americana* T

forages in prairie ponds, flooded pastures or fields, ditches, and other shallow standing water, including salt-water; usually roosts communally in tall snags, sometimes in association with other wading birds (i.e. active heronries); breeds in Mexico and birds move into Gulf States in search of mud flats and other wetlands, even those associated with forested areas; formerly nested in Texas, but no breeding records since 1960

FISHES

Federal Status State Status

Guadalupe bass *Micropterus treculii*

endemic to perennial streams of the Edward's Plateau region; introduced in Nueces River system

Sharpnose shiner *Notropis oxyrhynchus* C

endemic to Brazos River drainage; also, apparently introduced into adjacent Colorado River drainage; large turbid river, with bottom a combination of sand, gravel, and clay-mud

Smalleye shiner *Notropis buccula* C

endemic to upper Brazos River system and its tributaries (Clear Fork and Bosque); apparently introduced into adjacent Colorado River drainage; medium to large prairie streams with sandy substrate and turbid to clear warm water; presumably eats small aquatic invertebrates

MAMMALS

Federal Status State Status

Cave myotis bat *Myotis velifer*

colonial and cave-dwelling; also roosts in rock crevices, old buildings, carports, under bridges, and even in abandoned Cliff Swallow (Hirundo pyrrhonota) nests; roosts in clusters of up to thousands of individuals; hibernates in limestone caves of Edwards Plateau and gypsum cave of Panhandle during winter; opportunistic insectivore

Plains spotted skunk *Spilogale putorius interrupta*

catholic; open fields, prairies, croplands, fence rows, farmyards, forest edges, and woodlands; prefers wooded, brushy areas and tallgrass prairie

Red wolf *Canis rufus* LE E

extirpated; formerly known throughout eastern half of Texas in brushy and forested areas, as well as coastal prairies

MOLLUSKS

Federal Status State Status

MCLENNAN COUNTY

MOLLUSKS

Federal Status State Status

False spike mussel *Quincuncina mitchelli*

substrates of cobble and mud, with water lilies present; Rio Grande, Brazos, Colorado, and Guadalupe (historic) river basins

Pistolgrip *Tritogonia verrucosa*

stable substrate, rock, hard mud, silt, and soft bottoms, often buried deeply; east and central Texas, Red through San Antonio River basins

Rock pocketbook *Arcidens confragosus*

mud, sand, and gravel substrates of medium to large rivers in standing or slow flowing water, may tolerate moderate currents and some reservoirs, east Texas, Red through Guadalupe River basins

Smooth pimpleback *Quadrula houstonensis*

small to moderate streams and rivers as well as moderate size reservoirs; mixed mud, sand, and fine gravel, tolerates very slow to moderate flow rates, appears not to tolerate dramatic water level fluctuations, scoured bedrock substrates, or shifting sand bottoms, lower Trinity (questionable), Brazos, and Colorado River basins

Texas fawnsfoot *Truncilla macrodon*

little known; possibly rivers and larger streams, and intolerant of impoundment; flowing rice irrigation canals, possibly sand, gravel, and perhaps sandy-mud bottoms in moderate flows; Brazos and Colorado River basins

REPTILES

Federal Status State Status

Texas garter snake *Thamnophis sirtalis annectens*

wet or moist microhabitats are conducive to the species occurrence, but is not necessarily restricted to them; hibernates underground or in or under surface cover; breeds March-August

Texas horned lizard *Phrynosoma cornutum* T

open, arid and semi-arid regions with sparse vegetation, including grass, cactus, scattered brush or scrubby trees; soil may vary in texture from sandy to rocky; burrows into soil, enters rodent burrows, or hides under rock when inactive; breeds March-September

Timber/Canebrake rattlesnake *Crotalus horridus* T

swamps, floodplains, upland pine and deciduous woodlands, riparian zones, abandoned farmland; limestone bluffs, sandy soil or black clay; prefers dense ground cover, i.e. grapevines or palmetto

APPENDIX F

WETLAND DETERMINATION FORMS

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: IH 35 Waco to Temple
Applicant/Owner:
Investigator: HB ICE

Date: 9/19/01
County: McLennan
State: TX

Do Normal Circumstances exist on the site? (Yes) No
Is the site significantly disturbed (Atypical Situation)? Yes (No)
Is the area a potential Problem Area? Yes (No)
(If needed, explain on reverse.)

Community ID:
Transect ID:
Plot ID: 1
GPS 040

VEGETATION Trib to N. Cow Bayou

Dominant Plant Species	Stratum	Indicator
1. Salix nigra	t	FACW+
2. Celtis laevigata	t	FAC
3. Salix nigra	s/s	FACW+
4. Rubus trivialis	v	FAC
5. Ipomoea trichocarpa	v	FAC
6. Ambrosia trifida	h	FAC
7. Sorghum halepense	h	FACU
8. Solidago ssp.	h	—
9. Scutellaria drummondii	h	—
10.		
11.		
12.		
13.		
14.		
15.		
16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 6/7 = 86%

Remarks: meets vegetative criteria

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
___ No Recorded Data Available

Field Observations:
Depth of Surface Water: 2 in stream (in.)
Depth to Free Water in Pit: — (in.)
Depth to Saturated Soil: — (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
___ Saturated in Upper 12 inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks: Water of the U.S. OHWM average e. side = 2ft.
w side = 1ft.

box culvert

Photo 2 facing E downstream

SOILS

Map Unit Name (Series and Phase): Austin silty clay, 1 to 3% slopes
Drainage Class: well
Taxonomy (Subgroup): Udorthentic Haplustolls
Field Observations Confirm Mapped Type? (Yes) No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-14		10YR3/2	none	none	loamy clay

Hydric Soil Indicators:

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ Aquic Moisture Regime
___ Reducing Conditions
___ Gleyed or Low-Chroma Colors
___ Concretions
___ High Organic Content in Surface Layer in Sandy Soils
___ Organic Streaking in Sandy Soils
___ Listed on Local Hydric Soils List
___ Listed on National Hydric Soils List
___ Other (Explain in Remarks)

Remarks: does not meet soils criteria

WETLAND DETERMINATION

Hydrophytic Vegetation Present? (Yes) No (Circle)
Wetland Hydrology Present? Yes (No)
Hydric Soils Present? Yes (No)

(Circle)
Is this Samplig Point Within a Wetland? Yes (No)

Remarks: Water of the U.S.

Approved by HQUSACE 3/92

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: IH 35 Segment 3B Applicant/Owner: TxDOT Investigator: Christine Hasselbeck			Date: 6-23-07 County: McLennan State: Texas
Do Normal Circumstances exist on the site: Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse)	☒Yes ☐Yes ☐Yes	☐No ☒No ☒No	Community ID: Transect ID: Plot ID: WDP 1A – Tributary to North Cow Bayou

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. *Ambrosia trifida*	H	FAC	9.		
2. *Cynodon dactylon*	H	FACU+	10.		
3. *Salix nigra*	S	OBL	11.		
4. *Sorghum halepense*	H	FACU	12.		
5. *Helianthus spp.*	H	---	13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-) 2/5 = 40%

Remarks: This site does not meet the criteria for wetland vegetation.

HYDROLOGY

☒Recorded Data (Describe in Remarks):
- ☐Stream, Lake, or Tide Gauge
- ☒Aerial Photographs
- ☐Other

☐No Recorded Data Available

Field Observations: No soil pit was dug.

Depth of Surface Water: none (in.)

Depth to Free Water in Pit: NA (in.)

Depth to Saturated Soil: NA (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ☐Inundated
- ☐Saturated in Upper 12 Inches
- ☐Water Marks
- ☐Drift Lines
- ☐Sediment Deposits
- ☐Drainage patterns in Wetlands

Secondary Indicators (2 or more required):
- ☐Oxidized Root Channels in Upper 12 inches
- ☐Water-Stained Leaves
- ☐Local Soil Survey Data
- ☐FAC-Neutral Test
- ☐Other (Explain in Remarks)

Remarks: This site does not meet the criteria for wetland hydrology. No soil pit was dug at this site. This site is adjacent to a water of the U.S. (a tributary to North Cow Bayou). The ordinary high water mark (OHWM) on the west side of the roadway is approximately 4 feet, and on the east side of the roadway the OHWM is approximately 6 feet. This form represents a revision of the OHWMs listed on wetland determination form 1 (from 2001). On the west side of IH 35, this WOTUS arises in a low drainage area at the southwest corner of the intersection of IH 35 and North FM 2837. There was water present in the channel, flowing in an easterly direction.

SOILS

Map Unit Name (Series and Phase): Austin silty clay, 1 to 3 percent slopes	Drainage Class:
Taxonomy (Subgroup):	Field Observations Confirm Mapped type? ☐ Yes ☒ No*
	*Soils were not determined by a professional soil scientist.

Profile Description:

Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.

Hydric Soil Indicators:

- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic Odor
- ☐ Aquic Moisture Regime
- ☐ Reducing Conditions
- ☐ Gleyed or Low-Chroma Colors
- ☐ Concretions
- ☐ High Organic Content in Surface Layer in Sandy Soils
- ☐ Organic Streaking in Sandy Soils
- ☐ Listed on Local Hydric Soils List
- ☐ Listed on National Hydric Soils List
- ☐ Other (Explain in Remarks)

Remarks: No soil pit was dug at this site. Wetland soils could not be confirmed.

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☐ Yes	☒ No	Is this Sampling Point Within a Wetland? ☐ Yes ☒ No
Wetland Hydrology Present?	☐ Yes	☒ No	
Hydric Soils Present?	☐ Yes	☒ No*	

Remarks: *No soil pit was dug; thus, wetland soils could not be confirmed. This site is not located within a wetland due to the lack of hydrophytic vegetation and wetland hydrology.

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: IH 35 Waco to Temple 3B
Applicant/Owner:
Investigator: HB / CF

Date: 9/19/01
County: McLennan
State: TX

Do Normal Circumstances exist on the site? (Yes) No
Is the site significantly disturbed (Atypical Situation)? Yes (No)
Is the area a potential Problem Area? Yes (No)
(If needed, explain on reverse.)

Community ID:
Transect ID:
Plot ID: 2
GPS 041

Bull Hide Crk.

VEGETATION

Dominant Plant Species	Stratum	Indicator
1. Celtis laevigata	t	FAC
2. Sapindus drummondii	S/S	—
3. Smilax bona-nox	V	FAC
4. Toxicodendron radicans	V	FAC
5. Cocculus carolinus	V	FACU
6. Ambrosia trifida	h	FAC
7. Cynodon dactylon	h	FACU+
8.		
9.		
10.		
11.		
12.		
13.		
14.		
15.		
16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 4/6 = 66%

Remarks: meets vegetative criteria

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
___ No Recorded Data Available

Field Observations:
Depth of Surface Water: 8 (in.)
Depth to Free Water in Pit: — (in.)
Depth to Saturated Soil: — (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks: Water of the U.S. OHWM average e. side = 10ft.
" " W. Sid = 10ft

Photo 3 downstream

SOILS

Map Unit Name (Series and Phase): Tinn clay, frequently flooded
Drainage Class: Mod. well
Taxonomy (Subgroup): Typic Hapludents
Field Observations Confirm Mapped Type? (Yes) No

Profile Description:

Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-16		10YR 3/2	none	none	gravelly clay

Hydric Soil Indicators:

- ___ Histosol
- ___ Histic Epipedon
- ___ Sulfidic Odor
- ___ Aquic Moisture Regime
- ___ Reducing Conditions
- ___ Gleyed or Low-Chroma Colors
- ___ Concretions
- ___ High Organic Content in Surface Layer in Sandy Soils
- ___ Organic Streaking in Sandy Soils
- ___ Listed on Local Hydric Soils List
- ___ Listed on National Hydric Soils List
- ___ Other (Explain in Remarks)

Remarks: Does not meet soil criteria

can contain hydric inclusions

WETLAND DETERMINATION

Hydrophytic Vegetation Present? (Yes) No (Circle)
Wetland Hydrology Present? Yes (No)
Hydric Soils Present? Yes (No)

(Circle)
Is this Samplig Point Within a Wetland? Yes (No)

Remarks: Water of the U.S.

Approved by HQUSACE 3/92

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: IH35 Waco to Temple 3B
Applicant/Owner:
Investigator: HB/CR

Date: 9/19/01
County: McLennan
State: TX

Do Normal Circumstances exist on the site? (Yes) No
Is the site significantly disturbed (Atypical Situation)? Yes (No)
Is the area a potential Problem Area? Yes (No)
(If needed, explain on reverse.)

Community ID:
Transect ID:
Plot ID: 3
GPS 042

Trib to Bull Hide Crk (at Johnson Equip. Auction)

VEGETATION

Dominant Plant Species	Stratum	Indicator
1. Cynodon dactylon	H	FACU+
2. Sorghum halepense	H	FACU
3. Ambrosia trifida	H	FAC
4.		
5.		
6.		
7.		
8.		

Dominant Plant Species	Stratum	Indicator
9.		
10.		
11.		
12.		
13.		
14.		
15.		
16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 1/3 = 33%

Remarks: does not meet vegetative criteria

herbaceous vegetation only

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
___ No Recorded Data Available

Field Observations:
Depth of Surface Water: 1-2 (in.) in stream
Depth to Free Water in Pit: — (in.)
Depth to Saturated Soil: — (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks: OHWM ~2 feet

Photo 5 downstream - facing E

SOILS

Map Unit Name (Series and Phase): Tinn clay, frequently flooded
Drainage Class: mod. well
Taxonomy (Subgroup): Typic Hapludents
Field Observations Confirm Mapped Type? Yes (No)

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-16		10YR3/3	none	none	gravelly clay

Hydric Soil Indicators:

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ Aquic Moisture Regime
___ Reducing Conditions
___ Gleyed or Low-Chroma Colors
___ Concretions
___ High Organic Content in Surface Layer in Sandy Soils
___ Organic Streaking in Sandy Soils
___ Listed on Local Hydric Soils List
___ Listed on National Hydric Soils List
___ Other (Explain in Remarks)

Remarks: does not meet hydric soils criteria

Tinn can contain hydric inclusions

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes (No) (Circle)
Wetland Hydrology Present? Yes (No)
Hydric Soils Present? Yes (No)

Is this Samplig Point Within a Wetland? (Circle) Yes (No)

Remarks: Waters of the U.S.

Approved by HQUSACE 3/92

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: IH 35 Waco to Temple 3B
Applicant/Owner:
Investigator: HB KR

Date: 9/12/01
County: McLennan
State: TX

Do Normal Circumstances exist on the site? (Yes) No
Is the site significantly disturbed (Atypical Situation)? Yes (No)
Is the area a potential Problem Area? Yes (No)
(If needed, explain on reverse.)

Community ID:
Transect ID:
Plot ID: 4
GPS 43

VEGETATION

Dominant Plant Species	Stratum	Indicator
1. Solidago spp	h	
2. Xanthium strumarium	h	FAC-
3. Ambrosia trifida	h	FAC
4. Scutellaria drummondii	h	
5. Paspalum spp.	h	
6. Sorghum halepense	h	FACU
7.		
8.		
9.		
10.		
11.		
12.		
13.		
14.		
15.		
16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 1/3 = 33%

Remarks: does not meet veg. criteria

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
___ No Recorded Data Available

Field Observations:
Depth of Surface Water: 0 (in.)
Depth to Free Water in Pit: — (in.)
Depth to Saturated Soil: — (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks: not hydrologically connected to any stream
run-off area
east 0 OHWM
west 0 OHWM

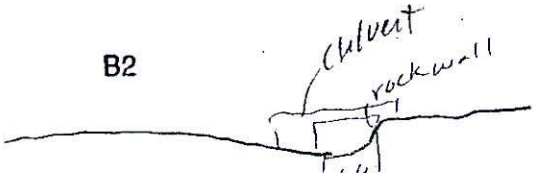


Photo to facing SE

SOILS

Map Unit Name (Series and Phase): Fairlie clay, 1 to 3% slopes
Drainage Class: Mod. well
Taxonomy (Subgroup): Udic Haplustepts
Field Observations Confirm Mapped Type? (Yes) No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-16		10YR 3/2	none	none	clay

Hydric Soil Indicators:

- ___ Histosol
- ___ Histic Epipedon
- ___ Sulfidic Odor
- ___ Aquic Moisture Regime
- ___ Reducing Conditions
- ___ Gleyed or Low-Chroma Colors
- ___ Concretions
- ___ High Organic Content in Surface Layer in Sandy Soils
- ___ Organic Streaking in Sandy Soils
- ___ Listed on Local Hydric Soils List
- ___ Listed on National Hydric Soils List
- ___ Other (Explain in Remarks)

Remarks: does not meet hydric soils criteria

can contain hydric inclusions

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes (No) (Circle)
Wetland Hydrology Present? Yes (No)
Hydric Soils Present? Yes (No)

Is this Samplig Point Within a Wetland? (Circle) Yes (No)

Remarks: non-jurisdictional drainage ditch

Approved by HQUSACE 3/92

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: IH 35 Waco to Temple 3B Applicant/Owner: _____ Investigator: _____	Date: 9/19/01 County: McLennan State: TX
Do Normal Circumstances exist on the site? (Yes) No Is the site significantly disturbed (Atypical Situation)? Yes (No) Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: _____ Transect ID: _____ Plot ID: 5 44

VEGETATION

Dominant Plant Species	Stratum	Indicator
1. Cynodon dactylon	h	FACU+
2. Sorghum halepense	h	FACU
3.		
4.		
5.		
6.		
7.		
8.		

Dominant Plant Species	Stratum	Indicator
9.		
10.		
11.		
12.		
13.		
14.		
15.		
16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 0/2 = 0%

Remarks: does not meet vegetative criteria

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
___ No Recorded Data Available

Field Observations:

Depth of Surface Water: 1-2 (in.)
Depth to Free Water in Pit: — (in.)
Depth to Saturated Soil: — (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks: drainage area Ottum ~~O~~ east ~~O~~ west

SOILS

Map Unit Name (Series and Phase): Stephen - Eddy complex, 2 to 5% slopes Drainage Class: Well / well

Taxonomy (Subgroup): Udorthentic Haplustolls / Typic Ustorthents Field Observations Confirm Mapped Type? Yes (No)

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-16		10YR3/3			clay

Hydric Soil Indicators:

- ___ Histosol
- ___ Histic Epipedon
- ___ Sulfidic Odor
- ___ Aquic Moisture Regime
- ___ Reducing Conditions
- ___ Gleyed or Low-Chroma Colors
- ___ Concretions
- ___ High Organic Content in Surface Layer in Sandy Soils
- ___ Organic Streaking in Sandy Soils
- ___ Listed on Local Hydric Soils List
- ___ Listed on National Hydric Soils List
- ___ Other (Explain in Remarks)

Remarks: does not meet hydric soils criteria

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes (No) (Circle)
Wetland Hydrology Present? Yes (No)
Hydric Soils Present? Yes (No)

(Circle)
Is this Samplig Point Within a Wetland? Yes (No)

Remarks: non-jurisdictional drainage ditch

Approved by HQUSACE 3/92

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: IH 35 Waco to Temple SB
Applicant/Owner:
Investigator: HB/CR

Date: 9/19/01
County: McLennan
State: TX

Do Normal Circumstances exist on the site? (Yes) No
Is the site significantly disturbed (Atypical Situation)? Yes (No)
Is the area a potential Problem Area? Yes (No)
(If needed, explain on reverse.)

Community ID:
Transect ID:
Plot ID: 6
GPS 45

Castleman Crk.

VEGETATION

Dominant Plant Species	Stratum	Indicator
1. Salix nigra	t	FACW+
2. Populus deltoides	t	FAC
3. Celtis laevigata	t	FAC
4. Salix nigra	S/S	FACW+
5. Cornus drummondii	S/S	FAC
6. Rubus trivialis	V	FAC
7. Smilax bona-nox	V	FAC
8. Ambrosia bifida	H	FAC
9.		
10.		
11.		
12.		
13.		
14.		
15.		
16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 8/8 = 100%

Remarks: meets vegetative criteria

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
___ No Recorded Data Available

Field Observations:
Depth of Surface Water: 4 (in.)
Depth to Free Water in Pit: — (in.)
Depth to Saturated Soil: — (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks: OHWM 3-4 ft. east
average 4ft west

Photo 8 facing e

SOILS

Map Unit Name (Series and Phase): Oven silty clay, freq. flooded

Drainage Class: Mod. well

Taxonomy (Subgroup): Udic Haplusterts

Field Observations Confirm Mapped Type? Yes (No)

Profile Description:

Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-16		10YR 3/2			gravelly clay

Hydric Soil Indicators:

- ___ Histosol
- ___ Histic Epipedon
- ___ Sulfidic Odor
- ___ Aquic Moisture Regime
- ___ Reducing Conditions
- ___ Gleyed or Low-Chroma Colors
- ___ Concretions
- ___ High Organic Content in Surface Layer in Sandy Soils
- ___ Organic Streaking in Sandy Soils
- ___ Listed on Local Hydric Soils List
- ___ Listed on National Hydric Soils List
- ___ Other (Explain in Remarks)

Remarks: does not meet soils criteria

WETLAND DETERMINATION

Hydrophytic Vegetation Present? (Yes) No (Circle)

Wetland Hydrology Present? Yes (No)

Hydric Soils Present? Yes (No)

Is this Samplig Point Within a Wetland? (Circle) Yes (No)

Remarks: Water of the U.S.

Approved by HQUSACE 3/92

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: IH35 Waco to Temple 3B
Applicant/Owner:
Investigator: HB ICR

Date: 9/19/01
County: McLennan
State: TX

Do Normal Circumstances exist on the site? Yes (No)
Is the site significantly disturbed (Atypical Situation)? (Yes) No
Is the area a potential Problem Area? Yes No
(If needed, explain on reverse.)

Community ID:
Transect ID:
Plot ID: 7
GPS 46

VEGETATION

Dominant Plant Species	Stratum	Indicator
1. Salix nigra	T	FACW+
2. Celtis laevigata	T	FAC
3. Cardiospermum halicacabum	V	FAC
4. Toxicodendron radicans	V	FAC
5. T. radicans	H	FAC
6.		
7.		
8.		
9.		
10.		
11.		
12.		
13.		
14.		
15.		
16.		

8-40 dbh
4-8

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 5/5 = 100%

Remarks: meets vegetative criteria

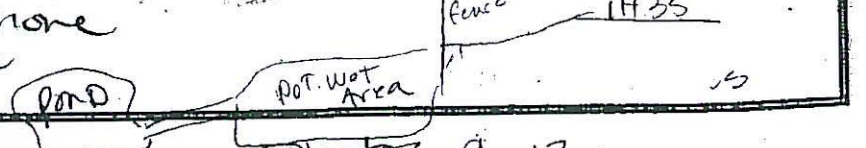
HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
___ No Recorded Data Available

Field Observations:
Depth of Surface Water: 1 (in.)
Depth to Free Water in Pit: 6 (in.)
Depth to Saturated Soil: 6 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X Saturated in Upper 12 Inches
X Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks: OHWM east - none
west side - none



20x60 ft. sedge covered area potentially wet

SOILS

Map Unit Name (Series and Phase): Fairlie clay, 1 to 3% slopes
Drainage Class: Mod. well
Taxonomy (Subgroup): Udic Haplusterts
Field Observations Confirm Mapped Type? Yes (No)

Profile Description:

Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-16		2.5YR4/3	none	none	clay

Hydric Soil Indicators:

- ___ Histosol
- ___ Histic Epipedon
- ___ Sulfidic Odor
- ___ Aquic Moisture Regime
- ___ Reducing Conditions
- ___ Gleyed or Low-Chroma Colors
- ___ Concretions
- ___ High Organic Content in Surface Layer in Sandy Soils
- ___ Organic Streaking in Sandy Soils
- ___ Listed on Local Hydric Soils List
- ___ Listed on National Hydric Soils List
- ___ Other (Explain in Remarks)

Remarks: does not meet soils criteria

can contain hydric inclusions

WETLAND DETERMINATION

Hydrophytic Vegetation Present? (Yes) No (Circle)
Wetland Hydrology Present? (Yes) No
Hydric Soils Present? Yes (No)

Is this Samplig Point Within a Wetland? (Circle) Yes (No)

Remarks:

Not a wetland
Not a Water of the U S.

Approved by HQUSACE 3/92

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: IH 35 Waco to Temple 3B
Applicant/Owner:
Investigator: HB / CR

Date: 9/19/01
County: McLennan
State: TX

Do Normal Circumstances exist on the site? (Yes) No
Is the site significantly disturbed (Atypical Situation)? Yes (No)
Is the area a potential Problem Area? Yes (No)
(If needed, explain on reverse.)

Community ID:
Transect ID:
Plot ID: 8 & 8a
GPS 047

Chambers Crk & TRIB

VEGETATION

Dominant Plant Species	Stratum	Indicator
1. Celtis laevigata	t	FAC
2. Salix nigra	t	FACW+
3. C. laevigata	S/S	FAC
4. Smilax bona-nox	V	FAC
5. Cucurbita foetidissima	V	—
6. Sorghum halepense	h	FACU
7. Iodsis arvensis	h	—
8.		
9.		
10.		
11.		
12.		
13.		
14.		
15.		
16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 4/5 = 80%

Remarks: meets vegetative criteria

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
___ No Recorded Data Available

Field Observations:
Depth of Surface Water: 1-2 (in.)
Depth to Free Water in Pit: — (in.)
Depth to Saturated Soil: — (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks: Average OHWM 2ft. both east sides
OHWM on west side 4ft (N) + 2ft (S)

Photo 13 & 14

SOILS

Map Unit Name (Series and Phase): Ovan Silty clay, freq. flooded

Drainage Class: mod. well

Taxonomy (Subgroup): Udic Haplusteits

Field Observations Confirm Mapped Type? Yes (No)

Profile Description:

Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-16		10YR 3/2			gravelly clay

Hydric Soil Indicators:

- ___ Histosol
- ___ Histic Epipedon
- ___ Sulfidic Odor
- ___ Aquic Moisture Regime
- ___ Reducing Conditions
- ___ Gleyed or Low-Chroma Colors
- ___ Concretions
- ___ High Organic Content in Surface Layer in Sandy Soils
- ___ Organic Streaking in Sandy Soils
- ___ Listed on Local Hydric Soils List
- ___ Listed on National Hydric Soils List
- ___ Other (Explain in Remarks)

Remarks: does not meet soils criteria

WETLAND DETERMINATION

Hydrophytic Vegetation Present? (Yes) No (Circle)

Wetland Hydrology Present? Yes (No)

Hydric Soils Present? Yes (No)

(Circle)

Is this Samplig Point Within a Wetland? Yes (No)

Remarks: Waters of the U.S.

Approved by HQUSACE 3/92

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: IH 35 Segment 3B Applicant/Owner: TxDOT Investigator: Christine Hasselbeck			Date: 1-22-07 County: McLennan State: Texas
Do Normal Circumstances exist on the site: Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse)	☒Yes ☐Yes ☐Yes	☐No ☒No ☒No	Community ID: Transect ID: Plot ID: WDP 9 – Unnamed Tributary

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. *Smilax bona-nox*	H/ V	FAC	9.		
2. *Cynodon dactylon*	H	FACU+	10.		
3. *Celtis laevigata*	T/S	FAC	11.		
4. *Juniperus ashei*	T	----	12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		
Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-)		2/4 = 50%			
Remarks: This site meets the criteria for wetland vegetation.					

HYDROLOGY

☒Recorded Data (Describe in Remarks):
- ☐Stream, Lake, or Tide Gauge
- ☒Aerial Photographs
- ☐Other

☐No Recorded Data Available

Field Observations: Depth of soil pit is 16 inches.

- Depth of Surface Water: none to 16 (in.)
- Depth to Free Water in Pit: none to 16 (in.)
- Depth to Saturated Soil: none to 16 (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ☐Inundated
- ☐Saturated in Upper 12 Inches
- ☐Water Marks
- ☐Drift Lines
- ☐Sediment Deposits
- ☐Drainage patterns in Wetlands

Secondary Indicators (2 or more required):
- ☐Oxidized Root Channels in Upper 12 inches
- ☐Water-Stained Leaves
- ☐Local Soil Survey Data
- ☐FAC-Neutral Test
- ☐Other (Explain in Remarks)

Remarks: This site does not meet the criteria for wetland hydrology. The soil pit was dug adjacent to a water of the U.S. (WOTUS) with an ordinary high water mark (OHWM) of approximately 4 feet on the west side of the roadway. No OHWM was observed on the east side of the roadway. There was water present in the WOTUS. Rain events had occurred within the previous week. Water was conveyed under the roadway by means of a 2 pipe culvert.

SOILS

Map Unit Name (Series and Phase): Austin silty clay, 1 to 3 percent slopes	Drainage Class:
Taxonomy (Subgroup):	Field Observations Confirm Mapped type? ☐ Yes ☒ No*
	*Soils were not determined by a professional soil scientist.

Profile Description:

Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-16		10 Y/R 4/2	-------	---------	Silty clay (with some gravel/roadfill)

Hydric Soil Indicators:

- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic Odor
- ☐ Aquic Moisture Regime
- ☐ Reducing Conditions
- ☐ Gleyed or Low-Chroma Colors
- ☐ Concretions
- ☐ High Organic Content in Surface Layer in Sandy Soils
- ☐ Organic Streaking in Sandy Soils
- ☐ Listed on Local Hydric Soils List
- ☐ Listed on National Hydric Soils List
- ☐ Other (Explain in Remarks)

Remarks: This site does not meet the criteria for wetland soils.

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes	☐ No	Is this Sampling Point Within a Wetland? ☐ Yes ☒ No
Wetland Hydrology Present?	☐ Yes	☒ No	
Hydric Soils Present?	☐ Yes	☒ No	

Remarks: This site is not located within a wetland due to the lack of wetland hydrology and hydric soils.

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: IH 35 Segment 3B Applicant/Owner: TxDOT Investigator: Bill Tillar, Christine Hasselbeck			Date: 6-6-07 County: McLennan State: Texas
Do Normal Circumstances exist on the site: Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse)	☒Yes ☐Yes ☐Yes	☐No ☒No ☒No	Community ID: Transect ID: Plot ID: WDP 10 – Tributary to Bull Hide Creek

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. *Ambrosia trifida*	H	FAC	9.		
2. *Cynodon dactylon*	H	FACU+	10.		
3. *Cirsium texanum*	H	---	11.		
4. *Sorghum halepense*	H	FACU	12.		
5. *Gaillardia pulchella*	H	---	13.		
6.			14.		
7.			15.		
8.			16.		
Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-)			2/5 = 40%		
Remarks: This site does not meet the criteria for wetland vegetation.					

HYDROLOGY

☒Recorded Data (Describe in Remarks):
- ☐Stream, Lake, or Tide Gauge
- ☒Aerial Photographs
- ☐Other

☐No Recorded Data Available

Field Observations: No soil pit was dug.

Depth of Surface Water: none (in.)

Depth to Free Water in Pit: NA (in.)

Depth to Saturated Soil: NA (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ☐Inundated
- ☐Saturated in Upper 12 Inches
- ☐Water Marks
- ☐Drift Lines
- ☐Sediment Deposits
- ☐Drainage patterns in Wetlands

Secondary Indicators (2 or more required):
- ☐Oxidized Root Channels in Upper 12 inches
- ☐Water-Stained Leaves
- ☐Local Soil Survey Data
- ☐FAC-Neutral Test
- ☐Other (Explain in Remarks)

Remarks: This site does not meet the criteria for wetland hydrology. No soil pit was dug at this site. This site is adjacent to a water of the U.S. (a tributary to Bullhide Creek). The ordinary high water mark (OHWM) on the west side of the roadway is approximately 2 feet (see WDP 3), but on the east side of the roadway (at this site) the OHWM was observed to be approximately 15 feet. There was water present in the channel. Water was conveyed under the roadway by means of a concrete box culvert and flowed east for approximately 50 feet, at which point it enters a pipe culvert. The pipe culvert appears to extend underneath a parking area at Johnson Equipment.

SOILS

Map Unit Name (Series and Phase): Austin silty clay, 1 to 3 percent slopes	Drainage Class:
Taxonomy (Subgroup):	Field Observations Confirm Mapped type? ☐ Yes ☒ No*
	*Soils were not determined by a professional soil scientist.

Profile Description:

Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.

Hydric Soil Indicators:

- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic Odor
- ☐ Aquic Moisture Regime
- ☐ Reducing Conditions
- ☐ Gleyed or Low-Chroma Colors
- ☐ Concretions
- ☐ High Organic Content in Surface Layer in Sandy Soils
- ☐ Organic Streaking in Sandy Soils
- ☐ Listed on Local Hydric Soils List
- ☐ Listed on National Hydric Soils List
- ☐ Other (Explain in Remarks)

Remarks: No soil pit was dug at this site. Wetland soils could not be confirmed.

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☐ Yes	☒ No	Is this Sampling Point Within a Wetland? ☐ Yes ☒ No
Wetland Hydrology Present?	☐ Yes	☒ No	
Hydric Soils Present?	☐ Yes	☒ No*	

Remarks: *No soil pit was dug; thus, wetland soils could not be confirmed. This site is not located within a wetland due to the lack of hydrophytic vegetation and wetland hydrology.